

**IN THE CLAIMS:**

**Please amend Claims so as to read as follows:**

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1-27. (Canceled, without prejudice)

21 / 28. (Amended) A data storage medium with display data recorded thereon,  
wherein the display data is recorded ~~by every specified unit and provided~~  
~~each with information for scroll display on a display screen~~ in the form of  
pre-specified units, each pre-specified unit of display data including  
display information and scroll display control information, and wherein  
the scroll display control information specifies the scroll path of the  
display of the display information in a coordinate system defined by said  
pre-specified unit according to coordinate values assigned to the display  
information in said pre-specified unit.

29. (Amended) The data storage medium with display data recorded thereon as  
defined in claim 28, characterized in that ~~the specified unit of recorded~~  
each pre-specified unit of recorded display data is a page.

30. (Amended) The data storage medium with display data recorded thereon as defined in claim 28, characterized in that ~~the information for scroll display includes information scrolling display data in different directions~~ the scroll display control information defines a plurality of intervals, the intervals being specified by line segments having different directions in said coordinate system defined by said pre-specified unit.

a1 31. (Amended) A data storage medium with display data recorded thereon as defined in claim 28, characterized in that the scroll display control information ~~for scroll display~~ includes information for linking with scroll display control information ~~for another scroll display~~ of another pre-specified unit.

/ 32. (Amended) A data storage medium with display data recorded thereon as ~~defined in claim 28, characterized in that~~ wherein the display data is recorded in the form of pre-specified units, each pre-specified unit of display data including display information and scroll display control information, and wherein the information for scroll display control information includes information on specifying a scroll display speed.

33. (Amended) A data storage medium with display data recorded thereon as defined in claim 28, characterized in that the scroll display control information ~~for scroll display~~ includes information ~~for specifying a scroll display area~~ display information associated with selected areas of said coordinate system defined by said pre-selected unit for scroll display.

34. (Amended) A data storage medium with display data recorded thereon as defined in claim 28, characterized in that the scroll display control information ~~for scroll display~~ includes information for specifying a scale of enlargement or reduction of a display area for scroll display.

a' / 35. (Amended) A data storage medium with display data recorded thereon as ~~defined in claim 28, characterized in that~~ wherein the display data is recorded in the form of pre-specified units, each pre-specified unit of display data including display information and scroll display control information, ~~wherein the scroll display control information for scroll display~~ includes synchronous reproduction information for specifying ~~a display~~ non-motionless data content such as sound or moving images to be reproduced in synchronism with the scroll display.

36. (Amended)) A display device for reproducing and displaying the storage medium with display data recorded thereon as defined any one of claims 28 to 35, which performs scroll display based on the scroll display control information ~~for scroll display~~.

37. (As originally filed) A display device as defined in claim 36, characterized in that it is provided with a scroll indicating means for scroll display.


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38. (New Claim) A data storage medium with display data associated with an entire document or the like recorded thereon, said display data including image data objects for display on a display screen, management information associated with each of said image data objects and information for scroll display on said display screen associated with each of said image data objects, comprising:

a computer readable medium in which said display data is recorded in the form of distinct files, each said file containing a preselected portion of said display data including image data objects along with their respective associated management information and information for scroll display.

39. (New Claim) The data storage medium with display data recorded thereon as defined in claim 38, characterized in that the preselected portion of said display data is a page grouping of said image data objects.

40. (New Claim) The data storage medium with display data recorded thereon as defined in claim 38, characterized in that the information for scroll display includes information for scrolling the image data objects or groupings thereof associated therewith in each said file on a display screen of a display device in selected different directions relative to one another.

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41. (New Claim) A data storage medium with display data recorded thereon as defined in claim 38, characterized in that the information for scroll display associated with the image data objects contained in each one of said files includes information for linking the display of the image data objects contained in each one of said files with information for scroll display of the image data objects contained in at least another one of said files.
42. (New Claim) A data storage medium with display data recorded thereon as defined in claim 38, characterized in that the information for scroll display includes information on a scroll display speed.
43. (New Claim) A data storage medium with display data recorded thereon as defined in claim 38, characterized in that the information for scroll display includes information for specifying a scroll display area on the display screen of a display device.
44. (New Claim) A data storage medium with display data recorded thereon as defined in claim 38, characterized in that the information for scroll display includes information for specifying a scale of enlargement or reduction of a display area for scroll display of its associated on the screen of a display device.

ad 45. (New Claim) A data storage medium with display data recorded thereon as defined in claim 38, characterized in that the information for scroll display associated with each image data object includes synchronous reproduction information for specifying other data to be reproduced in synchronism with the scroll display of each image data object.

46. (New Claim) A display device for reproducing and displaying the files recorded on the storage medium with display data recorded thereon as defined any one of claims 38 to 45, which performs scroll display based on the information for scroll display.

47. (New Claim) A display device as defined in claim 46, characterized in that a scroll indicating means controls the scroll display of said image data objects on a display screen of said display device.

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